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1. Date October 11, 1995	25. DMR. No. ⁵ 98 -DMR-000741
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Rec. for distribution 10/2/95

REVIEWED FOR CLASSIFICATION/UCNI
BY NA
DATE NA

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

MONITORING WELL AND PIEZOMETER INSTALLATION

EG&G ROCKY FLATS PLANT
EMD MANUAL OPERATION SOP

Manual:
Procedure No.:
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Organization:

5-21000-OPS
GT.6, Rev. 2
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06/01/94
Environmental Management

Category 2

or by circulating RFP potable water down through the casing. After reaching the selected depth, a sand bailer will be used to remove any accumulated fluids until the borehole is bailed clear or until fluids are relatively clear and free of sediment. The well assembly will then be advanced through the casing to the designated depth and the annulus between the casing and the well assembly will be used to tremie well materials. The well will be installed as per the alluvial wells installed through augers except that the casing will be used instead of augers.

6.3.2.3 Well Features at Ground Surface

Figure GT.6-3 shows a schematic diagram of well features at the ground surface. A 5-foot-long protective steel casing with a hinged and locking steel cap will be installed over the monitoring well riser that projects above the ground surface between 24 and 72 hours after initial grout placement, except when temperatures are below freezing. A shorter length protective steel casing (no less than 3-foot long) may be used when shallow screens are required. The protective casing will have a minimum 8-inch I.D. for 4-inch wells and a minimum 6-inch I.D. for 2-inch wells. The well designation will be welded on the protective casing. The bottom of the protective casing will be embedded 2 to 3 feet below the ground surface in concrete or cement grout. Prior to installing the protective casing, the well will be checked for alignment by lowering a 5-foot long, 1 1/2-inch diameter bailer down the entire depth of the well. If the bailer hangs up, the EG&G project manager will decide whether or not the well needs to be reconstructed.

In landfill areas, both the inner casing and outer protective casing shall be extended by means of attaching blank casing (also known as a riser) such that the top of the outer protective casing shall be about three feet above the new ground level. The top of the riser of monitoring wells or piezometers shall have threads to allow for subsequent additions of new blank casing as landfill operations continue raising the ground level elevation (see schematic diagram GT.6-4). Riser extensions for methane wells shall be constructed as shown on the schematic diagram GT.6-4B.

95-DML-000741